

0500
#4

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/421,106DATE: 10/28/1999
TIME: 16:01:52

Input Set: I421106.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

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1 <110> APPLICANT: Byrum, Joseph R.
2 <120> TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WIT
3 PLANTS
4 <130> FILE REFERENCE: 38-21(15598)B
5 <140> CURRENT APPLICATION NUMBER: US/09/421,106
6 <141> CURRENT FILING DATE: 1999-10-15
7 <160> NUMBER OF SEQ ID NOS: 36935
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9 <211> LENGTH: 147
10 <212> TYPE: DNA
11 <213> ORGANISM: Glycine max
12 <220> FEATURE:
13 <223> OTHER INFORMATION: unsure at all n locations
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16 gaaaagctta tccaaacaag gccactata tattctgcaa tctggtactg tgccatatat 120
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19 <211> LENGTH: 378
20 <212> TYPE: DNA
21 <213> ORGANISM: Glycine max
22 <400> SEQUENCE: 2
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24 agctacctct ctctcaacag caaccacctt ctttctcacc ttcaacacac aaattttaca 120
25 agcaaccgtg aactgctccc tctgcacttg ggtttttaaa tccactgaa actgacaacg 180
26 ccaacctcac tggcgctccc ctctcaccca aatcgccacc tggagtggcg ccttccagct 240
27 aggacctgc aactgcaggt gctgcaacct atggttgagc aagtgcaggt gctgaagtcg 300
28 ctggtcaaac cagcgcttct atgcaccttt ggacgcgcca ataagagctg cgatatgcag 360
29 tcctttgtcg ccagtcac 378
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31 <211> LENGTH: 423
32 <212> TYPE: DNA
33 <213> ORGANISM: Glycine max
34 <220> FEATURE:
35 <223> OTHER INFORMATION: unsure at all n locations
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39 tctagggtaa ttccatcatc taattacctt gcagacccta aaatcagaga agattgagtt 180
40 tgttgtagct ccatatgaag cagatgctca gttagcgtac atgtctcagc ttggagtaca 240
41 aaatggcgga gttgcagcgg tgatcacaga agatagtgat ctaatagcat atggctgtcc 300
42 agctgtaaga actcctccaa tactgtgata ttgcgcatgg aggtttactg cnnttttgat 360
43 atctcgattt atttacttgt tcactattca gttccataga aagcatgcat tttgggatat 420
44 aat 423

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55 aatcggacta ttttctcaaa cgaaccattt aatggaagca gaatgaatga ggatgcagtg 240
56 ttactgggtct ggtcatgggtt cacagagctg gagaaaagat ttacagagca ttacaactac 300
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62 <212> TYPE: DNA
63 <213> ORGANISM: Glycine max
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69 tcaaactcta aaatttgagc tcctagggag caaaacaatg tgtgtctcct agagagggca 180
70 tcagctacca catttgttt tccctttttg tatttgataa catatggaaa ttgctctagg 240
71 tactctaccc attttgcatg cctcttggtt aacttgcttt gccctctaata gtacttaagt 300
72 gattgatgat cactatgaat gacaaattcc ttggaaacaa ggtgtcgcaa cctacccttc 360
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84 ttcttgagga aacttccttg agaaacttct ttgaaaaaac ttccttgaga aggtagagct 240
85 tagctacaca caccatctc ataactaagc tcacctcctt gagaagtttc cataagaaga 300
86 ttcctaaaga agctagagct tagctacaca tacctctcta atagctaagc tcacctcctt 360
W--> 87 gagatgggaa gctagagctn tgctacacac ccnctatgat agctaagctc acccccatga 420
W--> 88 caaaatacat ganaatacaa aaaagatccc tactacaaag acta 464
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90 <211> LENGTH: 373
91 <212> TYPE: DNA
92 <213> ORGANISM: Glycine max
93 <220> FEATURE:
94 <223> OTHER INFORMATION: unsure at all n locations

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 98 tacaagttcg cttagcacac tgtttctgtc cactaagcgc accgcttcag tccatcagct 180
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 100 gcgctaagtg cagcagcagc aacaaggcca cctattttaag cttgaaatca gattttgtga 300
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 109 tacctgtcgc aagggtttgt ggtttgtgct cctctgctga ccaccataca gacctttgcc 120
 110 cttccatgca gcaacctgga gcaattgagc agcctgaagc ttatgctgca aatatttaca 180
 111 atagacctcc tcaacctcag cagcaaaatc aaccacagta gagcaattat gacctttcca 240
 112 gcaacagata caacctgga tggaggaatc accctaacct cagatggctc agccctcagc 300
 113 aacaacaaca gcagcctgct ccttccttcc aaaatgctgc tggcccaagc agaccataca 360
 114 ttctccacc aatccaacaa cagcaacaac ccagaaaca gccaacagct gaggccctc 420
 115 cacaaccttc cctgaagaa cttgtgaggc aaatgactat gc 462
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 126 ttctaaaagt tttgttcaa tagtttctct tccaagaaaa gttctttgtt caaaaacttc 240
 127 agctattcat ctttttcatt ctcttctccc tttgcaaaa gaaggaagga ctaaccgcct 300
 W-- 128 gaattttttt gtgtctctct tctcccttac aaaagattca naggactaac cgcctgatat 360
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 141 ccaatcatag gggatagggt cagctgaatc agagctttta ccagtacacc ctacgtcagc 240
 142 agagctagga tcccagccct tactcgtggc ttactcccca gtagtttggg gccacagttg 300
 143 catggcctgg agataggccc aattttcaag tagggacaag accctcaaag gccccaggag 360
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152      agtgcccaac ttgaccaca caggactacg caaatggctt atgaacttac agtccttatc   180
153      actaacaatg ctgcttggtg aaccatggat gtcacaatc tccttgagga acaaattagc   240
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162      gaagtacatt ataaccacca atttgataag atattgagac ataggcaaac cactaatcca   180
163      atgtacatac tgcagtgcac acatgttgta tccggaaagg attcacatgc atagagacat   240
164      tgtgaacca agattcctac tatgttggtg gcaatggaaa gagttaacaa acagtgttga   300
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166      cctaacatat act                               373
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176      aagattgctc ttgcctttga ctttctctat ctcctctcgn gatttttttt atttgagcaa   180
177      ccgttgatta tccggtaggg gtggaacttc gtatatgtct ttaatatctt cccatagatc   240
178      acaagcatca agataggggt ccgttcta atgcctagagg tggtaatggt ntccattgaa   300
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184 <400> SEQUENCE: 14
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187      caaggcggtt ccgtgggtga tttcgcaag attttcaacc gttcttcgac gttcttcggt   180
188      cgttcttcgt cgttcttcag tcttcaaccg gtaagtcccc gaaatcgaac ttttcaattc   240
189      attctatgta cccttagtgg tctcatttg ttttcaacgc cttttatttt cgtttcattt   300
190      actttccgta ccccttttg acgtgctcta gtcatttact taagtcattg tctcgcctta   360
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194 <212> TYPE: DNA

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W-OK
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201 actactagaa aaagagcttt ttgcgatgca cttacgacat cggccaaca aaactgtcga 180
202 agtatattaa atggtgcatt tgtgtaatta caacgaaagt gtgcaccttg ccaattttat 240
203 ggttgacatt ggcacaactc ccttgaaggt tgttggaagg gactcgagag tgaggaaact 300
204 agacagcttg ggtattcttc gatttccgta acatacttaa tgctctcaca acatagtgga 360
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213 cataatgagt tgtgccacat tttgcctata agtaggtgag gcgatttttt tcaaccaatt 180
214 agactctaат ccattggtgga tcaagttgac tcacaataat aataataatc tttttactta 240
215 cct 243
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217 <211> LENGTH: 331
218 <212> TYPE: DNA
219 <213> ORGANISM: Glycine max
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223 gtccagccaa aattccatgg tcctttaaag aagaagagac tatgtatctg ctggagggaa 180
224 aagtgagggt tactgttgaa gggctgtgtg ggtcttttga aattgggggt ggtgatttag 240
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236 aatttattgg aatcacaaaa attttgtggg ttctgttact tatttaatga acttcactcg 180
237 tgattttgga atttctaata aattttaacc aataataata атаатagagt gtgttactta 240
238 gaagggcatt gtattgctag cactcctctt gaagtatagc atacaaacat gaaaggaatt 300
W--> 239 ccattttaag tattatcctg taccanaacc tcacttttagt cccaattttt ggaaatcaca 360
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242 <210> SEQ ID NO 19
243 <211> LENGTH: 396
244 <212> TYPE: DNA

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.